

#### Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

## Problem Statement

Agriculture is the backbone of the Indian economy. For agriculture, the most important thing is water source, i.e. rainfall. The prediction of the amount of rainfall gives alertness to farmers by knowing early they can protect their crops from rain. So, it is important to predict the rainfall accurately as much as possible. Exploration and analysis of data on rainfall over various regions of India and especially the regions where agricultural works have been done persistently in a wide range. With the help of analysis and the resultant data, future rainfall prediction for those regions using various machine learning techniques such as XGBoost classifer, SVM classifers, Decision tree, Naive bayes classifer, Logistic regression etc.



#### Brainstorm

Write down any ideas that come to mind that address your problem statement.

① 10 minutes

#### Allen Joshuva

## aspects of rainfall and consequences

can be useful for

rainfall which can

very useful for

taking decisions

Increases in

Data from a property of homogeneity

#### Venkatesan

the weather

xgboost classifies the solution

Value with

Actual data set the model for performing various actions

#### Common Based Ideas

Random Forest Classifer data, modeling methods, and pre-processing techniques

Linear Stores in pkl format and classifies

K-Nearest Neighbours

## Ranjith

yields

Artificial Neural Network

## Subash

Predict the outcome of a new data

Data Visualization



#### Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

① 20 minutes

#### Data Analysis Ideas

at prediction

Data

series plot

technique shows that K-means technique

daily

Observing &

## Agricultural Purpose [Farmers Satisfaction]

tends to integration Increases the population growth

level of crop that cannot be reduced

Analysis in utilized to scientifically

### Pattern Recognition

& Collection trends to

Understand the news through Indian Metrological

Watching and analysing the rainfall trends

Collects the time and temperature of various regions

Focus on the crop yield

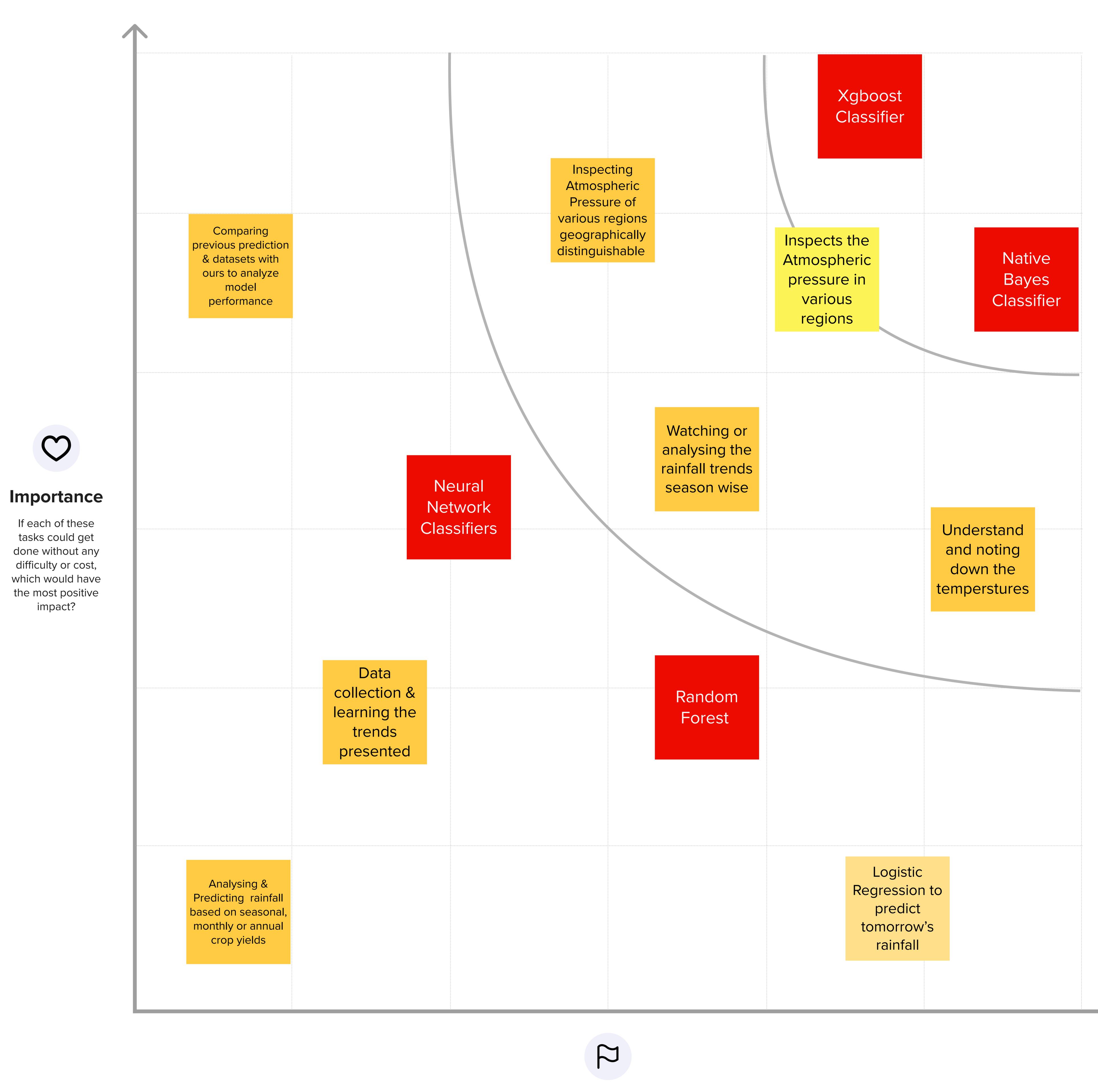
# Al Approaches **DL Techniques ML** Algorithms



#### Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

① 20 minutes



Regardless of their importance, which tasks are more